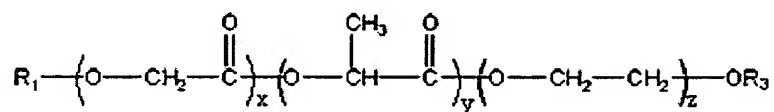


ABSTRACT OF THE DISCLOSURE

A thermo-sensitive copolymer of following formula;



5 is disclosed; wherein R_1 is hydrogen, or $-C(=O)-R_2$; R_2 is C_{7-30} alkyl substituted or unsubstituted with functional groups; R_3 is hydrogen, or C_{1-6} alkyl; and x , y or z individually is an integer greater than 0. The thermo-sensitive copolymers disclosed here are easy to be implanted into a human body through injection. The biodegradability is greatly improved
10 and the cytotoxicity of the copolymers is low.